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DATE MAILED: 07/02/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/895,213	07/02/2001	Shigeo Yoshii	0819-0592	8545
	590 07/02/2003			
Mc Dermott, Will & Emery 600 13th Street, N.W.			EXAMINER	
Washington, DC 20005			MONDT, JOHANNES P	
			ART UNIT	PAPER NUMBER
			2826	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	9th
			Applicant(s)
Office Action Summary		09/895,213	YOSHII ET AL.
	,	Examiner	Art Unit
	The MAIL ING DATE of this communication an	Johannes P Mondt	2826
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	o correspondence address
- External fractions of the control	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication, period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing department adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be by within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS for	timely filed  ays will be considered timely.  In the mailing date of this communication.
1)🖂	Responsive to communication(s) filed on 10.	lune 2003	
2a)⊠	<u> </u>	is action is non-final.	
3)⊠			
	Since this application is in condition for allowated closed in accordance with the practice under on of Claims	Ex parte Quayle, 1935 C.D. 11,	prosecution as to the merits is 453 O.G. 213.
4)🖂	Claim(s) 1-22 is/are pending in the application	1.	
4	4a) Of the above claim(s) <u>2-11</u> is/are withdrawr	from consideration.	
	Claim(s) 1,12,13 and 15-22 is/are allowed.		
	Claim(s) is/are rejected.	NATHA	AV Sent Services
7)	Claim(s) is/are objected to.	SUPERVISORY	PATENT EXAMINATES
	Claim(s) are subject to restriction and/o	ନ୍ଦ୍ରପ୍ରଧାର requirement	Y CENTED 2800
	on Papers		
9)□ T	he specification is objected to by the Examiner	r.	
10)⊠ T	he drawing(s) filed on <u>02 July 2001</u> is/are: a)	] accepted or b)⊠ objected to by t	the Examiner.
	Applicant may not request that any objection to the		
11)[] T	he proposed drawing correction filed on	is: a)□ approved b)□ disappr	oved by the Examiner.
	If approved, corrected drawings are required in rep	ly to this Office action.	·
12)∐ T	he oath or declaration is objected to by the Exa	aminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)🛛 🗸	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).
	☐ All b)☐ Some * c)☐ None of:	,	, (=, (-)
1	1.⊠ Certified copies of the priority documents	have been received.	
2	2. Certified copies of the priority documents		ion No
3	Copies of the certified copies of the priori		
	application from the International Bur se the attached detailed Office action for a list o	eau (PCT Rule 17.2(a)). of the certified copies not receive	ed.
	knowledgment is made of a claim for domestic		
a) 15)∐ Ad	$\square$ The translation of the foreign language provious $\square$	risional application has been rec priority under 35 U.S.C. §§ 120	ceived. Dand/or 121.
ttachment(s		- <del>-</del>	
)  Notice   )  Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>14</u>	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)
Patent and Trad O-326 (Rev.	- · ·	on Summary	Part of Paper No. 19

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/10/3 has been entered as Paper No. 17.

### Information Disclosure Statement

The examiner has considered the items listed in the Information Disclosure Statement filed 4/28/3 as Paper No. 14.

# Response to Amendment

Amendment C filed 6/10/3 has been entered as Paper No. 18 in light of the Request for Continued Examination. In Amendment C Applicant canceled claim 14, amended claims 1, 15 and 20.

# Allowable Subject Matter

- 2. Claims 1, 12-13 and 15-22 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Neither the Prior Art as Admitted by Applicant nor Fujii et al nor Duncan as cited in the rejection in Paper No. 13 (Final Rejection) teach the base electrode to be

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electrically connected to the third semiconductor layer via the graded composition layer and the active layer. Furthermore, Katoh (5,010,382) (cf. Information Disclosure of Paper No. 14) does not disclose the base electrode to be provide an electrical connection to the third semiconductor layer either because the active layer in applications of the heterojunction bipolar transistor is the interface between layers 3 and 4a (cf. col. 6, lines 13-33) and is located in the mesa rather than along the path connecting the base electrode 6 (cf. col. 7, line 68) and is therefore not a chain in the aforementioned electrical connection.

#### **Drawings**

- 4. New corrected drawings are required in this application because:
- 5. Figures 17-20 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). Proposed drawing corrections are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 6. Figure 1 should be corrected as follows: layers 101 and 106 should have dashes run from bottom right to upper left, instead of bottom left to upper right, in order to indicate the p-type conductivity of said layers 101 and 106 (see disclosure on page 19).
- 7. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to

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the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

#### Conclusion

- 8. This application is in condition for allowance except for the following formal matters (A) and (B):
  - (A) Drawing Corrections as formulated above in paragraphs 6 and 7;
- (B) Cancellation of claim 2-11 previously withdrawn in the election without traverse as stated in Paper No. 9.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P Mondt whose telephone number is 703-306-0531. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 703-308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JPM June 30, 2003